

## Haskell County

### Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/26/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 9 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Haskell County economy.<sup>1</sup>

These 9 sectors have a total direct output of approximately **\$945.6 million** and support **793.5 jobs** in Haskell County. Running the model for all 9 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Haskell County Economy						
Impact Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>	Output % of Gross Regional Product
<b>Direct Effect</b>	793.5	31.31%	\$214,491,693	64.84%	\$945,632,569	285.84%
<b>Indirect Effect</b>	392.9	15.51%	\$29,864,344	9.03%	\$53,170,829	16.07%
<b>Induced Effect</b>	139.9	5.52%	\$10,616,548	3.21%	\$18,602,460	5.62%
<b>Total Effect</b>	1326.2	52.34%	\$254,972,584	77.07%	\$1,017,405,858	307.54%

As shown in the above table, agriculture, food, and food processing sectors support **1,326.2 jobs**, or **52.34%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$1.02 billion**, roughly **307.54% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 9 agriculture, food, and food processing sectors is approximately **\$255.0 million**, or **77.07% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **77.07% of the total economy**.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

1 Article on building a contribution analysis in IMPLAN that avoids double counting:

[http://www.implan.com/index.php?option=com\\_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70](http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70)

2 Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

3 Value added = labor income + indirect business taxes + other property type income.

4 GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

5 Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **695.5 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Haskell County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	695.5	\$805,204,200
Support activities for agriculture and forestry	93.6	\$10,464,805
Wholesale trade	89.0	\$17,829,070
Real estate	88.9	\$5,400,236
Truck transportation	39.2	\$7,685,885
Grain farming	38.1	\$86,408,014
Other animal food manufacturing	28.6	\$39,131,280
All other crop farming	20.1	\$9,902,211
Services to buildings	17.1	\$330,680
Maintenance and repair construction of nonresidential structures	16.7	\$2,138,459

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$805.2 million** to the Haskell County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	695.5	\$805,204,200
Grain farming	38.1	\$86,408,014
Other animal food manufacturing	28.6	\$39,131,280
Wholesale trade	89.0	\$17,829,070
Support activities for agriculture and forestry	93.6	\$10,464,805
All other crop farming	20.1	\$9,902,211
Owner-occupied dwellings	0.0	\$8,255,517
Truck transportation	39.2	\$7,685,885
Real estate	88.9	\$5,400,236
Rail transportation	8.0	\$4,255,508

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Haskell County economy.

<b>All Agriculture, Food, and Food Processing Sectors</b>		
<b>Sector</b>	<b>Total Employment</b>	<b>Total Output</b>
Oilseed farming	0.4	\$3,797,952.41
Grain farming	38.1	\$86,408,012.39
Cotton farming	0.7	\$279,205.71
All other crop farming	20.1	\$9,902,211.19
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	695.5	\$805,204,162.60
Animal production, except cattle and poultry and eggs	0.2	\$76,696.05
Other animal food manufacturing	28.6	\$39,131,278.99
Bread and bakery product, except frozen, manufacturing	1.4	\$146,237.18
Veterinary services	8.5	\$686,773.06

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Haskell County, the retail sector was omitted.